RESPUESTAS DEL TRABAJO PRACTICO MATRICES Y DETERMINANTES

PARTE B DETERMINANTES

B. I)

- 1. a) |A| = 7
 - b) $Mcd_{34} = -2$
 - c) $Cd_{33} = -8$
 - d) |B| = 15

- 3. a) x = 2 b) x = 3
- B. II)

1. a)
$$|G| = 18$$

- b) $Mcf_{13} = -16$
- c) $Cf_{14} = 32$
- d) |E| = -40

2.
$$B^{-1} = \begin{array}{ccc} 1/9 & 7/18 & -1/18 \\ -2/9 & 2/9 & 1/9 \\ 1/18 & -1/18 & 2/9 & _{3x3} \end{array}$$

3. a)
$$x_1 = 3$$
; $x_2 = 2/3$

b)
$$x_1 = 12$$
; $x_2 = 1$

B. III)

1. a)
$$|C| = 0$$

 $|G| = -18$

b)
$$Mcf_{23} = 0$$

 $Mcd_{24} = 36$

c)
$$Cd_{13} = -8$$

 $Cf_{34} = -24$

d)
$$|G| = 6$$

 $|D| = -42$
 $|F| = 0$

2.
$$C^{-1} = \begin{pmatrix} -1 & 3/4 & 3/4 & 1/6 & -1/3 & 7/6 \\ 0 & 1/4 & 1/4 & D^{-1} = -1/3 & -1/3 & 5/3 \\ -1 & 3/8 & 7/8 & _{3X3} & -1/6 & 1/3 & -1/6 & _{3X3} \end{pmatrix}$$

3.
$$x_1 = -2$$
; $x_2 = 1$
 $x_1 = -7/2$; $x_2 = 2$